

12/14/00  
1249 U.S. PTO

12-15-00

PTO/SB/05 (08/00)

Approved for use through 10/31/2002. OMB 0651-0032

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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**UTILITY**

**PATENT APPLICATION  
TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No **061607-1360**

First Inventor **Betts**

Title **DISCRETE MULTITONE INTERLEAVER**

Express Mail Label No.

**EL492180899US**

JC832 U.S. PTO  
12/14/00  
136353

**APPLICATION ELEMENTS**

See MPEP Chapter 600 concerning utility patent application contents

**ADDRESS TO:**

Assistant Commissioner for Patents  
Box Patent Application  
Washington, DC 20231

APPLICANT REQUESTS EARLY PUBLICATION UNDER 37 CFR 1.219 (additional fee)

1. <input checked="" type="checkbox"/>	Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original, and a duplicate for fee processing)	7. <input type="checkbox"/>	CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
2. <input type="checkbox"/>	Applicant claims small entity status.	8. <input type="checkbox"/>	Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
3. <input checked="" type="checkbox"/>	Specification (preferred arrangement set forth below)	a. <input type="checkbox"/>	Computer Readable Copy (CRF)
	- Descriptive title of the invention - Cross References to Related Applications - Statement Regarding Fed. Sponsored R&D - Reference to sequence listing, a table, or a computer program listing appendix - Background of the Invention - Brief Summary of the Invention - Brief Description of the Drawings (if filed) - Detailed Description - Claim(s) - Abstract of the Disclosure	b. <input type="checkbox"/>	Specification Sequence Listing on: i. <input type="checkbox"/> CD-ROM or CD-R (2 copies), or ii. <input type="checkbox"/> Paper
4. <input checked="" type="checkbox"/>	Drawing(s) (35 USC 113)	[Total Pages] <b>34</b>	c. <input type="checkbox"/> Statements verifying identity of above copies
5. <input type="checkbox"/>	Oath or Declaration	[Total Pages] <b>2</b>	9. <input type="checkbox"/> Assignment Papers (cover sheet & Documents(s))
a. <input checked="" type="checkbox"/>	Newly Executed (original or copy)	10. <input type="checkbox"/> 37 CFR 3.73(b) Statement (when there is an assignee)	<input type="checkbox"/> Power of Attorney
b. <input type="checkbox"/>	Copy from a prior application (37 CFR §1.63(d)) (for continuation/divisional with Box 17 completed)	11. <input type="checkbox"/> English Translation Document (if applicable)	<input checked="" type="checkbox"/> Copies of IDS Citations
i. <input type="checkbox"/>	<b>DELETION OF INVENTOR(S)</b> Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).	12. <input checked="" type="checkbox"/> Information Disclosure Statement (IDS)/PTO-1449	
6. <input checked="" type="checkbox"/>	Application Data Sheet. See 37 CFR 1.76	13. <input type="checkbox"/> Preliminary Amendment	
	Assignee Name and Address (if applicable) Paradyne Corporation 8545 126 <sup>th</sup> Avenue, North Largo, FL 33773	14. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503) (Should be specifically itemized)	
		15. <input type="checkbox"/> Certified Copy of Priority Document(s) (if foreign priority is claimed)	
		16. <input type="checkbox"/> Request and Certification under 35 U.S.C. 122(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.	
		17. <input type="checkbox"/> Other: _____	

18. If a CONTINUING APPLICATION, check appropriate box and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

Continuation       Divisional       Continuation-in-part (CIP)

of prior application No: /

Group / Art Unit: \_\_\_\_\_

Prior application information: Examiner \_\_\_\_\_  
For CONTINUATION OR DIVISIONAL APPS only. The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. This incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts

**18. CORRESPONDENCE ADDRESS**



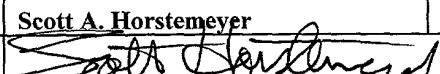
Customer Number or Bar Code Label

(Insert Customer No. or Attach bar code label here)

**24504**

or  Correspondence address below

NAME	Scott A. Horstemeyer Thomas, Kayden, Horstemeyer & Risley, L.L.P.		
ADDRESS	100 Galleria Parkway Suite 1750		
CITY	Atlanta	STATE	Georgia
COUNTRY	U.S.A.	TELEPHONE	770-933-9500
ZIP CODE	30339-5948		
FAX	770-951-0931		

Name (Print/Type)	Scott A. Horstemeyer	Registration No. (Attorney/Agent)	34,183
Signature			Date 12/14/00

Burden Hour Statement: This form is estimated to take 0 2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

PATENTS

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Betts

For: **DISCRETE MULTITONE INTERLEAVER**

**CERTIFICATE OF EXPRESS MAIL**

Assistant Commissioner for Patents  
BOX: Patent Applications  
Washington, D.C. 20231

JC882 U.S. PTO  
09/736353  
12/14/00



Sir:

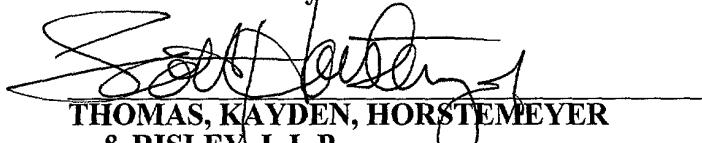
Enclosed for filing in the above case are the following documents:

Return Postcard  
Utility Patent Application Transmittal Page  
Fee Transmittal Page  
Utility Patent Application Consisting Of:  
    24 Pages of Specification  
    9 Pages of Claims  
    1 Page of Abstract  
    10 Pages of Formal Drawings  
Executed Declaration For Patent Application (2 Pages)  
Patent Application Data Entry Form  
Information Disclosure Statement  
Form PTO-1449  
Cited Prior Art (A through F)  
Charge Deposit Account 16-0255 in the amount of \$1,994.00

Further, the Commissioner is authorized to charge Deposit Account No. 16-0255 for any additional fees required. The Commissioner is requested to credit any excess fee paid to Deposit Account No. 16-0255.

Respectfully submitted,

**Scott A. Horstemeyer**



\_\_\_\_\_  
**THOMAS, KAYDEN, HORSTEMEYER  
& RISLEY, L.L.P.**  
100 Galleria Parkway, N.W.  
Suite 1750  
Atlanta, Georgia 30339-5948

Our Docket No: **061607-1360**

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I hereby certify that all correspondences listed above are being deposited for delivery to the above addressee, with the United States Postal Service "**EXPRESS MAIL POST OFFICE TO ADDRESSEE**" service under 37 CFR §1.10 on the date indicated below:

The envelope has been given U.S. Postal Service "Express Mail Post Office To Addressee" Package # **EL492180854US**.

Date: 12/14/00



Marianne Boland  
Marianne Boland

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

# FEE TRANSMITTAL for FY 2000

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT

(\$ 1,994.00)

## Complete If Known

Application Number	To Be Assigned
Filing Date	Herewith
First Named Inventor	Betts
Examiner Name	To Be Assigned
Group / Art Unit	To Be Assigned
Attorney Docket No.	061607-1360

## METHOD OF PAYMENT

1.  The Commissioner is hereby authorized to charge to the following Deposit Account.

Deposit Account Number	16-0255
------------------------	---------

Charge all indicated fees and any additional fee required or credit any overpayment.

Charge any additional fee required and requested to credit any overpayment.  Applicant claims small entity status. See 37 CFR 1.27

2.  Payment Enclosed:

Check  Money Order  Credit Card

## FEE CALCULATION

## 1. BASIC FILING FEE

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid
101	710	201	355	Utility filing fee	\$710
106	320	206	160	Design filing fee	\$
107	490	207	245	Plant filing fee	\$
108	710	208	355	Reissue filing fee	\$
114	150	214	75	Provisional filing fee	\$
				SUBTOTAL (1)	(\$710)

## 2. EXTRA CLAIM FEES

	Extra Claims	Fee from below	Fee Paid
Total Claims	48	-20** = 28 x 18.00	= 504
Independent Claims	9	-3** = 6 x 80.00	= 480
Multiple Dependent		270.00	=

\*\*or number previously paid, if greater; For Reissue, see below

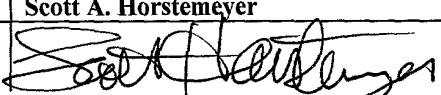
Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description
103	18	203	9	Claims in excess of 20
102	80	202	40	Independent Claims in excess of 3
104	270	204	135	Multiple dependent claims in excess of 3
109	80	209	40	**Reissue independent claims over original patent
110	18	210	9	**Reissue claims in excess of 20 and over original patent
				SUBTOTAL (2) (\$984)

## FEE CALCULATION (continued)

## 3. ADDITIONAL FEES

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid
105	130	205	65	Surcharge - late filing fee	
127	50	227	25	Surcharge - late provisional filing fee or cover sheet	
139	130	139	130	Non-English specification	
147	2,520	147	2,520	For filing a request for reexamination	
112	920*	112	920*	Requesting publication of SIR prior to Examiner action	
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	
115	110	215	55	Extension for reply within first month	
116	390	216	195	Extension of time within second month	
117	890	217	445	Extension of time within third month	
118	1,390	218	695	Extension of time within fourth month	
128	1,890	228	945	Extension of time within fifth month	
119	310	219	155	Notice of Appeal	
120	310	220	155	Filing a brief in support of an appeal	
121	270	221	135	Request for oral hearing	
138	1,510	138	1,510	Petition to institute a public use proceeding	
140	110	240	55	Petition to revive - unavoidable	
141	1,240	241	620	Petition to revive - unintentional	
142	1,240	242	620	Utility issue fee (or reissue)	
143	440	243	220	Design issue fee	
144	600	244	300	Plant issue fee	
122	130	122	130	Petitions to the Commissioner	
123	50	123	50	Petitions related to provisional applications	
126	180	126	180	Submission of Information Disclosure Stmt	
581	40	581	40	Recording each patent assignment per property (time number of properties)	
146	710	246	355	Filing a submission after final rejection (37 CFR 1.129(a))	
149	710	249	355	For each additional invention to be examined (37 CFR 1.129(b))	
179	710	279	355	Request for Continued Examination (RCE)	
169	900	169	900	Request for expedited examination of a design application	
				Other fee (specify)	Publication Fee
				Other fee (specify)	
				*Reduced by Basic Filing Fee Paid	SUBTOTAL (3) 300

Complete (if applicable)

SUBMITTED BY			
Typed or Printed Name	Scott A. Horstemeyer	Reg Number	34,183
Signature		Date	10/14/00
			Deposit Account User ID